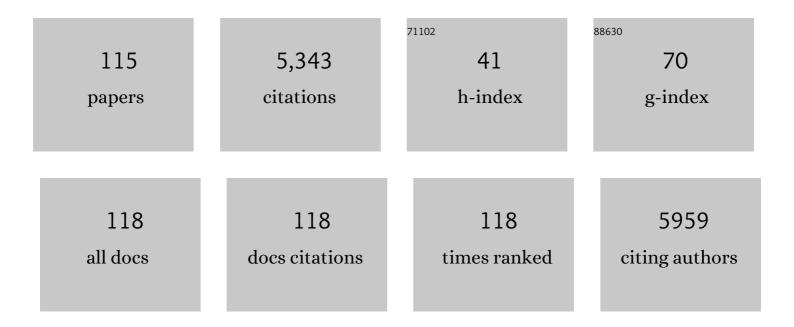
## David A Vanden Bout

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/196375/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Discrete Intensity Jumps and Intramolecular Electronic Energy Transfer in the Spectroscopy of Single Conjugated Polymer Molecules. Science, 1997, 277, 1074-1077.	12.6	508
2	Classifying the Photophysical Dynamics of Single- and Multiple-Chromophoric Molecules by Single Molecule Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 7564-7575.	2.5	281
3	Single-Molecule Studies of Heterogeneous Dynamics in Polymer Melts Near the Glass Transition. Science, 2001, 292, 255-258.	12.6	205
4	Uniform exciton fluorescence from individual molecular nanotubes immobilized on solid substrates. Nature Nanotechnology, 2009, 4, 658-663.	31.5	199
5	Utilizing redox-chemistry to elucidate the nature of exciton transitions in supramolecular dye nanotubes. Nature Chemistry, 2012, 4, 655-662.	13.6	174
6	A Molecular Yarn:Â Near-Field Optical Studies of Self-Assembled, Flexible, Fluorescent Fibers. Journal of the American Chemical Society, 1996, 118, 4049-4058.	13.7	128
7	A Study of Excimer Emission in Solutions of Poly(9,9-dioctylfluorene) Using Electrogenerated Chemiluminescence. Journal of Physical Chemistry A, 2001, 105, 520-523.	2.5	117
8	Self-assembly of highly ordered conjugated polymer aggregates with long-range energyÂtransfer. Nature Materials, 2011, 10, 942-946.	27.5	112
9	Spatially and temporally resolved emission from aggregates in conjugated polymers. Physical Review B, 1996, 54, R3683-R3686.	3.2	106
10	Heterogeneous Dynamics and Domains in Supercooledo-Terphenyl:Â A Single Molecule Study. Journal of Physical Chemistry B, 2002, 106, 11438-11445.	2.6	105
11	Regioregularity and Single Polythiophene Chain Conformation. Journal of Physical Chemistry Letters, 2011, 2, 1400-1404.	4.6	104
12	Effect of Electronâ€Transport Material on Lightâ€Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700476.	19.5	103
13	Broadening of vibrational lines by attractive forces: Ultrafast Raman echo experiments in a CH3I:CDCl3mixture. Journal of Chemical Physics, 1993, 99, 810-819.	3.0	102
14	Room Temperature Electrodeposition of Molybdenum Sulfide for Catalytic and Photoluminescence Applications. ACS Nano, 2013, 7, 8199-8205.	14.6	92
15	Near-Field Optical Studies of Thin-Film Mesostructured Organic Materials. Accounts of Chemical Research, 1997, 30, 204-212.	15.6	91
16	Transient hole burning of sâ€ŧetrazine in propylene carbonate: A comparison of mechanical and dielectric theories of solvation. Journal of Chemical Physics, 1995, 103, 9146-9160.	3.0	90
17	Synthesis and Catalytic Evaluation of Dendrimer-Encapsulated Cu Nanoparticles. An Undergraduate Experiment Exploring Catalytic Nanomaterials. Journal of Chemical Education, 2009, 86, 368.	2.3	86
18	Grapheneâ€Based Optically Transparent Electrodes for Spectroelectrochemistry in the UV–Vis Region. Small. 2010. 6. 184-189.	10.0	86

#	Article	IF	CITATIONS
19	Photoinitiated Growth of Sub-7 nm Silver Nanowires within a Chemically Active Organic Nanotubular Template. Journal of the American Chemical Society, 2010, 132, 2104-2105.	13.7	83
20	Conformation and Energy Transfer in Single Conjugated Polymers. Accounts of Chemical Research, 2012, 45, 1992-2001.	15.6	82
21	A Mobile Precursor Determines Amyloid-β Peptide Fibril Formation at Interfaces. Journal of the American Chemical Society, 2012, 134, 14172-14178.	13.7	81
22	Single molecule photobleaching: increasing photon yield and survival time through suppression of two-step photolysis. Chemical Physics Letters, 2002, 365, 387-395.	2.6	79
23	Polarization-Modulation Near-Field Scanning Optical Microscopy of Mesostructured Materials. The Journal of Physical Chemistry, 1996, 100, 13794-13803.	2.9	75
24	Ultrafast Raman Echo Measurements of Vibrational Dephasing and the Nature of Solventâ^'Solute Interactions. Accounts of Chemical Research, 1997, 30, 65-71.	15.6	74
25	Imaging Molecular and Nanoscale Order in Conjugated Polymer Thin Films with Near-field Scanning Optical Microscopy. Journal of the American Chemical Society, 2001, 123, 3605-3606.	13.7	73
26	Direct Measurement of Energy Migration in Supramolecular Carbocyanine Dye Nanotubes. Journal of Physical Chemistry Letters, 2014, 5, 2274-2282.	4.6	71
27	Unraveling the chromophoric disorder of poly(3-hexylthiophene). Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3550-6.	7.1	70
28	The effect of solvent quality on the chain morphology in solutions of poly(9,9′-dioctylfluorene). Polymer, 2007, 48, 2322-2330.	3.8	69
29	Near-Field Scanning Optical Microscopy (NSOM) Studies of Nanoscale Polymer Ordering in Pristine Films of Poly(9,9-dialkylfluorene). Journal of Physical Chemistry B, 2000, 104, 9378-9387.	2.6	68
30	Effect of finite trajectory length on the correlation function analysis of single molecule data. Journal of Chemical Physics, 2006, 125, 124701.	3.0	65
31	Photophysics of Poly[p-(2,5-didodecylphenylene)ethynylene] in Thin Films. Macromolecules, 2005, 38, 5892-5896.	4.8	59
32	Control of Interface Order by Inverse Quasi-Epitaxial Growth of Squaraine/Fullerene Thin Film Photovoltaics. ACS Nano, 2013, 7, 9268-9275.	14.6	59
33	Near-Field Scanning Optical Microscopy Studies of Nanoscale Order in Thermally Annealed Films of Poly(9,9-diakylfluorene). Langmuir, 2002, 18, 897-903.	3.5	55
34	Near-Field Scanning Optical Microscopy Measurements of Fluorescent Molecular Probes Binding to Insulin Amyloid Fibrils. Journal of Physical Chemistry B, 2009, 113, 12090-12095.	2.6	52
35	Copper Indium Gallium Selenide (CIGS) Photovoltaic Devices Made Using Multistep Selenization of Nanocrystal Films. ACS Applied Materials & Interfaces, 2013, 5, 9134-9140.	8.0	52
36	Origins of Nonexponential Decay in Single Molecule Measurements of Rotational Dynamics. Physical Review Letters, 2005, 95, 173001.	7.8	50

#	Article	IF	CITATIONS
37	An insight into non-emissive excited states in conjugated polymers. Nature Communications, 2015, 6, 8246.	12.8	48
38	Impact of backbone fluorination on nanoscale morphology and excitonic coupling in polythiophenes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5113-5118.	7.1	46
39	Spatially Resolved Spectral Inhomogeneities in Small Molecular Crystals Studied by Near-Field Scanning Optical Microscopy. The Journal of Physical Chemistry, 1996, 100, 11843-11849.	2.9	45
40	The effect of local lithium surface chemistry and topography on solid electrolyte interphase composition and dendrite nucleation. Journal of Materials Chemistry A, 2019, 7, 14882-14894.	10.3	45
41	Spectroelectrochemical Investigation of Double-Walled Tubular J-Aggregates of Amphiphilic Cyanine Dyes. Journal of Physical Chemistry C, 2008, 112, 1260-1268.	3.1	44
42	Electronic Energy Transfer in Highly Aligned MEH-PPV Single Chains. Journal of Physical Chemistry B, 2011, 115, 9941-9947.	2.6	42
43	Excitonic Energy Migration in Conjugated Polymers: The Critical Role of Interchain Morphology. Journal of the American Chemical Society, 2014, 136, 16023-16031.	13.7	41
44	Molecular Motions in Polymer Films near the Glass Transition:Â a Single Molecule Study of Rotational Dynamics. Journal of Physical Chemistry B, 2001, 105, 11978-11985.	2.6	37
45	Molecular Weight Effect on the formation of β Phase Poly(9,9′-dioctylfluorene) in Dilute Solutions. Journal of Physical Chemistry B, 2011, 115, 12380-12385.	2.6	35
46	The Effects of Aggregation on Electronic and Optical Properties of Oligothiophene Particles. ACS Nano, 2012, 6, 5507-5513.	14.6	34
47	Influence of Composition on the Performance of Sintered Cu(In,Ga)Se <sub>2</sub> Nanocrystal Thinâ€Film Photovoltaic Devices. ChemSusChem, 2013, 6, 481-486.	6.8	33
48	Fluorescence Lifetime Imaging with Near-Field Scanning Optical Microscopy. Analytical Chemistry, 2001, 73, 3257-3262.	6.5	31
49	Determining if a System is Heterogeneous: The Analysis of Single Molecule Rotational Correlation Functions and Their Limitations. Journal of Fluorescence, 2007, 17, 797-804.	2.5	31
50	Effects of molecular architecture on morphology and photophysics in conjugated polymers: from single molecules to bulk. Chemical Science, 2018, 9, 1101-1111.	7.4	31
51	Rapid, homogeneous vibrational dephasing in ethanol at low temperatures determined by Raman echo measurements. Chemical Physics Letters, 1994, 229, 87-92.	2.6	30
52	Unmasking Bulk Exciton Traps and Interchain Electronic Interactions with Single Conjugated Polymer Aggregates. ACS Nano, 2012, 6, 523-529.	14.6	30
53	Quantifying the Polarization of Exciton Transitions in Double-Walled Nanotubular J-Aggregates. Journal of Physical Chemistry C, 2013, 117, 26473-26481.	3.1	29
54	Aqueous Electrogenerated Chemiluminescence of Self-Assembled Double-Walled Tubular J-Aggregates of Amphiphilic Cyanine Dyes. Journal of Physical Chemistry C, 2011, 115, 2470-2475.	3.1	28

#	Article	IF	CITATIONS
55	Well-Defined Alternating Copolymers of Oligo(phenylenevinylene)s and Flexible Chains. Macromolecules, 2012, 45, 5051-5057.	4.8	28
56	Effect of the Sideâ€Chainâ€Distribution Density on the Singleâ€Conjugatedâ€Polymerâ€Chain Conformation. ChemPhysChem, 2013, 14, 4143-4148.	2.1	28
57	Conformational Effect on Energy Transfer in Single Polythiophene Chains. Journal of Physical Chemistry B, 2012, 116, 9866-9872.	2.6	27
58	Reversible and Irreversible Electric Field Induced Morphological and Interfacial Transformations of Hybrid Lead Iodide Perovskites. ACS Applied Materials & Interfaces, 2017, 9, 33478-33483.	8.0	27
59	Ultrafast Raman echo experiments in liquids. Journal of Raman Spectroscopy, 1995, 26, 503-511.	2.5	25
60	Application of mode-coupling theory to solvation dynamics. Physical Review E, 1996, 54, 2786-2796.	2.1	25
61	Nonexponential Relaxation of Poly(cyclohexyl acrylate): Comparison of Single-Molecule and Ensemble Fluorescence Studies. Journal of Physical Chemistry B, 2009, 113, 2253-2261.	2.6	23
62	Direct Fabrication of Nanoscale Light Emitting Diode on Silicon Probe Tip for Scanning Microscopy. Journal of Microelectromechanical Systems, 2008, 17, 4-10.	2.5	22
63	Analysis of orientational dynamics of single fluorophore trajectories from three-angle polarization experiments. Journal of Chemical Physics, 2008, 128, 244501.	3.0	22
64	Mapping Spatial Heterogeneity in Cu(In <sub>1â^'<i>x</i></sub> Ga <sub><i>x</i></sub> )Se <sub>2</sub> Nanocrystalâ€Based Photovoltaics with Scanning Photocurrent and Fluorescence Microscopy. Small, 2010, 6, 2832-2836.	10.0	22
65	Chromophore-Controlled Self-Assembly of Highly Ordered Polymer Nanostructures. Journal of Physical Chemistry Letters, 2013, 4, 2520-2524.	4.6	22
66	Scanning photocurrent microscopy of lateral organic bulk heterojunctions. Physical Chemistry Chemical Physics, 2012, 14, 13199.	2.8	21
67	Nanoscale fluorescence imaging with quantum dot near-field electroluminescence. Applied Physics Letters, 2012, 101, 043118.	3.3	21
68	An in Situ Study of Metal Complexation by an Immobilized Synthetic Biopolymer Using Tapping Mode Liquid Cell Atomic Force Microscopy. Analytical Chemistry, 2001, 73, 4087-4095.	6.5	20
69	Comparison of ensemble and single molecule approaches to probing polymer relaxation dynamics near Tg. Journal of Chemical Physics, 2002, 116, 5850-5856.	3.0	20
70	Mimicking Conjugated Polymer Thin-Film Photophysics with a Well-Defined Triblock Copolymer in Solution. Journal of Physical Chemistry B, 2013, 117, 4170-4176.	2.6	20
71	Temperature-Dependent Exciton Properties of Two Cylindrical J-Aggregates. Journal of Physical Chemistry C, 2014, 118, 24325-24334.	3.1	20
72	Near-field scanning optical microscopy with monolithic silicon light emitting diode on probe tip. Applied Physics Letters, 2008, 92, .	3.3	19

#	Article	IF	CITATIONS
73	Evaluation of Lithium Ion Insertion Reactivity via Electrochromic Diffraction-Based Imaging. Langmuir, 2009, 25, 2508-2518.	3.5	19
74	Single- and Double-Layer Graphenes as Ultrabarriers for Fluorescent Polymer Films. Journal of Physical Chemistry C, 2011, 115, 23057-23061.	3.1	19
75	Synthesis of a Donor–Acceptor Diblock Copolymer via Two Mechanistically Distinct, Sequential Polymerizations Using a Single Catalyst. Macromolecular Rapid Communications, 2014, 35, 204-209.	3.9	19
76	Directing the Conformation of Oligo(phenylenevinylene) Polychromophores with Rigid, Nonconjugatable Morphons. Macromolecules, 2016, 49, 3838-3844.	4.8	19
77	Effect of Film Morphology on the Energy Transfer to Emissive Green Defects in Dialkyl Polyfluorenes. Macromolecules, 2007, 40, 4524-4529.	4.8	18
78	When is a single molecule heterogeneous? A multidimensional answer and its application to dynamics near the glass transition. Journal of Chemical Physics, 2015, 143, 024110.	3.0	18
79	Synthesis and folding behaviour of poly( <i>p</i> -phenylene vinylene)-based β-sheet polychromophores. Chemical Science, 2019, 10, 2144-2152.	7.4	18
80	Effects of Molecular Oxygen on Multiphoton-Excited Photochemical Analysis of Hydroxyindoles. Analytical Chemistry, 2000, 72, 3821-3825.	6.5	17
81	Carbon Optically Transparent Electrodes for Electrogenerated Chemiluminescence. Langmuir, 2012, 28, 1604-1610.	3.5	17
82	Revealing the Chemistry and Morphology of Buried Donor/Acceptor Interfaces in Organic Photovoltaics. Journal of Physical Chemistry Letters, 2017, 8, 2764-2773.	4.6	15
83	Plastic Microgroove Solar Cells Using CuInSe <sub>2</sub> Nanocrystals. ACS Energy Letters, 2016, 1, 1021-1027.	17.4	13
84	The effects of photochemical oxidation and chain conformation onÂgreen emission of poly(9,9-dioctylfluorene). Applied Physics A: Materials Science and Processing, 2009, 95, 241-247.	2.3	12
85	Spectrophotometric Titration of Bimetallic Metal Cation Binding in Polyamido(amine) Dendrimer Templates. Analytical Chemistry, 2012, 84, 5154-5158.	6.5	12
86	Near-field scanning optical microscopy (NSOM) study of alkyl-substituted polyfluorene films: the affect of alkyl substituent length on nanoscale polymer ordering and cluster formation Macromolecular Symposia, 2001, 167, 153-166.	0.7	11
87	Spectroelectrochemical Investigation of an Electrogenerated Graphitic Oxide Solid–Electrolyte Interphase. Analytical Chemistry, 2012, 84, 8190-8197.	6.5	11
88	Moisture-Driven Formation and Growth of Quasi-2-D Organolead Halide Perovskite Crystallites. ACS Applied Energy Materials, 2020, 3, 6280-6290.	5.1	11
89	Singular Value Decomposition Analysis of Spectroelectrochemical Redox Chemistry in Supramolecular Dye Nanotubes. Journal of Physical Chemistry C, 2011, 115, 14978-14987.	3.1	10
90	Fully time-resolved near-field scanning optical microscopy fluorescence imaging. Analytica Chimica Acta, 2003, 496, 259-266.	5.4	9

#	Article	IF	CITATIONS
91	Effect of interfacial dipoles on charge traps in organic–inorganic hybrid solar cells. Journal of Materials Chemistry A, 2013, 1, 3258.	10.3	9
92	Perylene diimide functionalized polynorbornene: a macromolecular scaffold for supramolecular self-assembly. Journal of Materials Chemistry C, 2013, 1, 8060.	5.5	9
93	Device Physics and Operation of Lateral Bulk Heterojunction Devices. Journal of Physical Chemistry B, 2013, 117, 4503-4509.	2.6	9
94	Probing the molecular weight dependent intramolecular interactions in single molecules of PCDTBT. Journal of Materials Chemistry C, 2017, 5, 9786-9791.	5.5	9
95	Controlling the folding of conjugated polymers at the single molecule level via hydrogen bonding. Polymer Chemistry, 2017, 8, 1188-1195.	3.9	8
96	Aggregation Behavior of Rod–Coil–Rod Triblock Copolymers in a Coil-Selective Solvent. Journal of Physical Chemistry B, 2015, 119, 330-337.	2.6	7
97	Correlation of Morphology with Photocurrent Generation in a Polymer Blend Photovoltaic Device. Small, 2014, 10, 1821-1829.	10.0	6
98	Oligomeric interface modifiers in hybrid polymer solar cell prototypes investigated by fluorescence voltage spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 10640-10647.	2.8	6
99	Hydrogen peroxide production <i>via</i> a redox reaction of <i>N</i> , <i>N</i> â€2-dimethyl-2,6-diaza-9,10-anthraquinonediium by addition of bisulfite. Chemical Communications, 2018, 54, 11204-11207.	4.1	6
100	A Spectroscopic Study of 2-[4′-(Dimethylamino)phenyl]-benzothiazole Binding to Insulin Amyloid Fibrils. Journal of Fluorescence, 2010, 20, 881-889.	2.5	5
101	Standard sample probes for characterizing optical apertures in near-field scanning optical microscopy. Review of Scientific Instruments, 2003, 74, 2424-2428.	1.3	4
102	UV-vis Spectroscopy and Cyclic Voltammetry Investigations of Tubular J-Aggregates of Amphiphilic Cyanine Dyes. ECS Transactions, 2009, 16, 77-84.	0.5	4
103	Resource Letter: LBMOM-1: Laser-based modern optical microscopy. American Journal of Physics, 2003, 71, 429-436.	0.7	2
104	Using lateral bulk heterojunctions to study the effects of additives on PTB7:PC61BM space charge regions. Synthetic Metals, 2015, 209, 158-163.	3.9	2
105	Transient Hole Burning in Liquids. Molecular Crystals and Liquid Crystals, 1996, 283, 101-107.	0.3	1
106	Near-Field Scanning Optical Imaging with Monolithic Silicon Light Emitting Diode on Probe Tip. , 2008, ,		1
107	Regioregularity effect on conformation and opto-electronic properties in single polythiophene chains. Proceedings of SPIE, 2011, , .	0.8	1

108 Ultrafast Raman echo experiments in the liquid phase. , 1992, , .

#	Article	IF	CITATIONS
109	Raman echo studies of attractive and repulsive forces in the coupling of solvents to vibrational motion. AIP Conference Proceedings, 1994, , .	0.4	0
110	Multiphoton excitation as a probe for biological fractionations. , 2001, , .		0
111	Mesoscopic Structures of Organic Molecular Crystal Thin Films Studied by Near-Field Scanning Optical Microscopy. Molecular Crystals and Liquid Crystals, 2001, 371, 147-150.	0.3	0
112	Time-Resolved Fluorescence Near-Field Scanning Optical Microscopy Studies of Conjugated Polymer Thin Films. ACS Symposium Series, 2005, , 12-24.	0.5	0
113	Optical studies of Poly[p-(2,5-didodecylphenylene)ethynylene] in Thin Films. Materials Research Society Symposia Proceedings, 2006, 937, 1.	0.1	0
114	Near-field scanning optical micro probe integrated with a nanometer-sized light emitting diode. , 2007, , .		0
115	Near-field Scanning Optical Microscopy — Breaking the diffraction limit using nano light emitting probe tip. , 2008, , .		0